

United States Patent and Trademark Office



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/629,491	07/29/2003	Michael R.S. Hill	9095DIV (2620/29)	7444
75	590 06/06/2005		EXAM	INER
CARDINAL LAW GROUP			MULLEN, KRISTEN DROESCH	
Suite 2000 1603 Orrington	Avenue		ART UNIT	PAPER NUMBER
Evanston, IL 60201			3762	
			DATE MAILED: 06/06/2003	5

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>		Amplication No.	A1:			
,		Application No.	Applicant(s)			
Office Action Summary		10/629,491	HILL ET AL.			
Office Action Sum	nary	Examiner	Art Unit			
The MAN INO DATE of the		Kristen Mullen	3762			
The MAILING DATE of this Period for Reply	communication app	ears on the cover sheet with the c	orrespondence address			
- Failure to reply within the set or extended pe	OMMUNICATION. ne provisions of 37 CFR 1.13 of this communication. than thirty (30) days, a reply maximum statutory period w riod for reply will, by statute, ree months after the mailing	6(a). In no event, however, may a reply be tim	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).			
Status			·			
1) Responsive to communicate	tion(s) filed on <u>29 Ju</u>	ly 2003.				
2a) This action is FINAL .	This action is FINAL. 2b) This action is non-final.					
<i>,</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims			•			
4) ⊠ Claim(s) <u>1-24</u> is/are pendir 4a) Of the above claim(s) _ 5) □ Claim(s) is/are allow 6) ⊠ Claim(s) <u>1-24</u> is/are rejected 7) □ Claim(s) is/are objected 8) □ Claim(s) are subjected	is/are withdraw red. ed. cted to.	·				
Application Papers						
	July 2003 is/are: a) t any objection to the correction including the correction	☑ accepted or b)☐ objected to be drawing(s) be held in abeyance. See on is required if the drawing(s) is objected to be a second or the drawing(s) is objected in the drawing(s) is objected to be a second or the drawing(s).	e 37 CFR 1.85(a). jected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119						
2. Certified copies of the3. Copies of the certified application from the	lone of: le priority documents le priority documents ld copies of the prior International Bureau	priority under 35 U.S.C. § 119(a) is have been received. In Application of the certified copies not received the certified copies not received.	ion No ed in this National Stage			
Attachment(s)						
Attachment(s) 1) Notice of References Cited (PTO-892)		4) Interview Summary	(PTO-413)			
2) D Notice of Draftsperson's Patent Drawin	-	Paper No(s)/Mail D	ate			
3) Information Disclosure Statement(s) (P Paper No(s)/Mail Date	TO-1449 or PTO/SB/08)	5) Notice of Informal F 6) Other:	Patent Application (PTO-152)			

Application/Control Number: 10/629,491

Art Unit: 3762

DETAILED ACTION

Specification

1. An application in which the benefits of an earlier application are desired must contain a specific reference to the prior application(s) in the first sentence(s) of the specification or in an application data sheet by identifying the prior application by application number (37 CFR 1.78(a)(2) and (a)(5)). If the prior application is a non-provisional application, the specific reference must also include the relationship (i.e., continuation, divisional, or continuation-in-part) between the applications except when the reference is to a prior application of a CPA assigned the same application number.

The reference to the prior application is incorrect. The application number should be 09/669,355.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 3. Claims 1, 4-8, 11-13 and 24 are rejected under 35 U.S.C. 102(b) as being anticipated by Landymore et al. (4,753,244).

Page 2

Application/Control Number: 10/629,491

Art Unit: 3762

Landymore shows an electrical sensor comprising a probe electrode (30) and an indicator (20) and a drug delivery means comprising a catheter that delivers an antiarrhymic agent (potassium) (Col. 1, lines 14-21).

4. Claims 1-2, 11-16 and 24 are rejected under 35 U.S.C. 102(e) as being anticipated by Ben-Haim et al. (6,304,777).

Ben-Haim shows an electrical sensor comprising a epicardial electrodes and an indicator; a cardiac stimulator comprising at least one cardiac stimulation electrode (Fig. 1; Col. 5, line 61-Col. 6, line 3; Col. 8, lines 5-23).

Ben-Haim also shows the sensor and stimulator are the same (90) (Fig. 1).

The functional language and statements of intended use have been carefully considered but are not considered to impart any further structural limitations over the prior art.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 3, 9-10 and 17-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ben-Haim et al. (6,304,777) in view of Medtronic (WO 97/40885). Ben-Haim et al. is as explained before. Although Ben-Haim shows stimulating the heart to inhibit beating of the heart, Ben-Haim teaches that it is well known to stimulate the vagus nerve to inhibit beating of the heart (Col. 1, lines 38-51). Medtonic teaches an electrode device that stimulates the vagus nerve to inhibit beating of the heart. Therefore, it would have been obvious to one with ordinary skill

in the art at the time the invention was made to employ a vagal nerve stimulation electrode of Medtronic used to inhibit beating of the heart for the heart stimulation electrodes of Ben-Haim t to inhibit beating of the heart wherein so doing would amount to mere substitution of one functional equivalent for another that would work equally well on the Ben-Haim device.

Claims 19-23 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ben-Haim et al. (6,304,777) in view of (Medtronic WO 97/40885). Ben-Haim et al. is as explained before. Although Ben-Haim et al. does not show a breathing regulator comprising a respirator or at least one nerve stimulation electrode, attention is directed to Medtronic which teaches a similar device and uses electrodes to stimulate the phrenic nerve and a respirator in order to still the lungs during the medical procedure while the beating of the heart is inhibited (Page 9, lines 14-22). Therefore it would have been obvious to one with ordinary skill in the art at the time the invention was made to stop breathing by phrenic stimulation when the state of cardiac tissue is a non-contracting state as Medtronic teaches in order to still the lungs during the medical procedure.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kristen Mullen whose telephone number is (571) 272-4944. The examiner can normally be reached on M-F, 10:30 am-6:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Angela Sykes can be reached on (571) 272-4955. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Application/Control Number: 10/629,491

in Muller

Art Unit: 3762

Page 5

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

kdm

ANGELA D. SYKES
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 3700

Cingel R Shy